

MAGNUM™
by GRACO®

Magnum X5 and X7 Airless Sprayers

3A1775C

EN

**- For Portable Spray Applications of Architectural Paints and Coatings -
- Not for use in explosive atmospheres -**

Models:

Magnum X5 (16J750) - Series A

Maximum Working Pressure: 207 bar, 21 MPa (3000 PSI)

Includes:

- 0.91 lpm (0.24 gpm) stand-mount sprayer
- SG2 gun - Manual 312830
- 0.635 cm (1/4 in.) x 7.5 m (25 ft) hose

Magnum X7 (16J751) - Series A

Maximum Working Pressure: 207 bar, 21 MPa (3000 PSI)



Includes:

- 1.17 lpm (0.31 gpm) cart-mount sprayer
- SG3 gun - Manual 312830
- 0.635 cm (1/4 in.) x 15 m (50 ft) hose

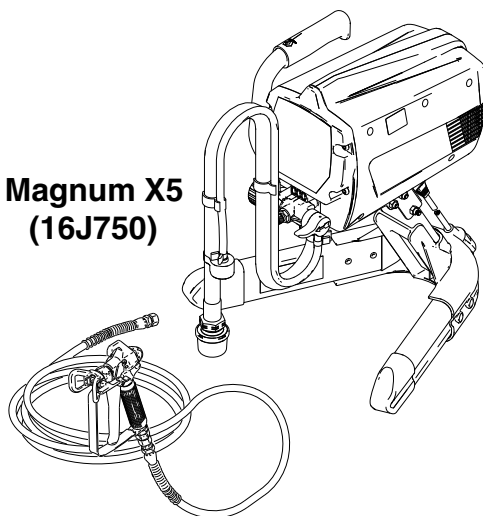


Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.

						
<ul style="list-style-type: none"> • Use water-based or mineral spirit-type materials only. Do not use flammable materials. For more information about your material, request MSDS from distributor or retailer. 						

**Magnum X5
(16J750)**



**Magnum X7
(16J751)**

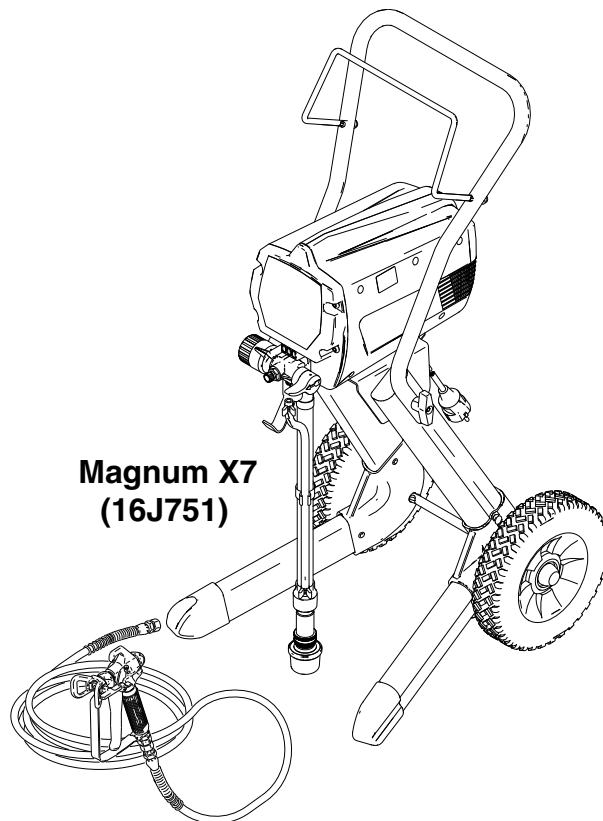


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Warnings

The following warnings are for the setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risks. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

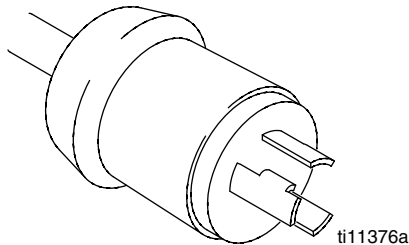
WARNING



GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Improper installation of the grounding plug is able to result in a risk of electric shock.
- Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 230V circuit and has a grounding plug similar to the plug illustrated in the figure below.



Only connect the product to an outlet having the same configuration as the plug.
Do not use an adapter with this product.

Extension Cords:

- Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary, use 15m (49.2 ft) 1.0 mm², 30m (98.4 ft) 1.5 mm², or 50m (164.0 ft) 2.5 mm² minimum to carry the current that the product draws. An undersized cord results in a drop in line voltage and loss of power and overheating.



WARNING



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:

- Do not spray or clean with flammable materials [flash points lower than 100° F (38° C)]. Use water-based material or mineral spirits-type material only. For complete information about your fluid, request the MSDS from the fluid distributor or retailer.
- Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- Only use water-based or mineral spirit-type materials with a flash point greater than 70° F (21° C).
- Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use Graco conductive or grounded high-pressure airless paint sprayer hoses.
- Verify that all containers and collection systems are grounded to prevent static discharge. Do not use pail liners unless they are antistatic or conductive.
- Connect to a grounded outlet and use grounded extensions cords. Do not use a 3-to-2 adapter.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area. Do not spray pump assembly.
- Do not smoke in the spray area.
- Do not operate light switches, engines, or similar spark producing products in the spray area.
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvents manufacturer's safety instructions.
- Fire extinguisher equipment shall be present and working.
- Sprayer generates sparks. When combustible materials are used in or near the sprayer or for flushing or cleaning, keep sprayer at least 20 feet (6 m) away from explosive vapors.



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment.
- Connect only to grounded power source.
- All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

WARNING



SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



WARNING



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDSs to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



RECOIL HAZARD

Gun may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.

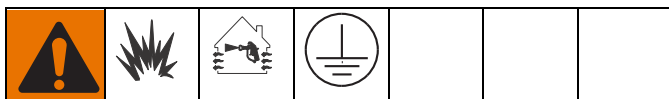


PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

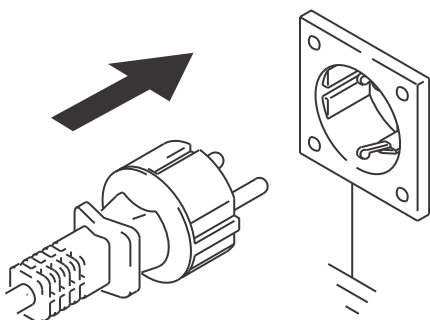
Grounding Instructions



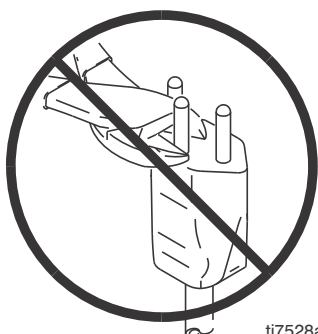
Sprayer must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for electrical current due to static build up or in the event of a short circuit.

1. This sprayer requires 220-240 VAC, 50/60 Hz 10A circuit with a grounding receptacle. Never use an outlet that is not grounded.

ti7529b



2. Do not use sprayer if electrical cord has damaged ground prong.



ti7528a

3. Do not use an extension cord with damaged ground plug.

Recommended extension cords:

- 15 m (49.2 ft) 1.0 mm²
- 30 m (98.4 ft) 1.5 mm²
- 50 m (164.0 ft) 2.5 mm²

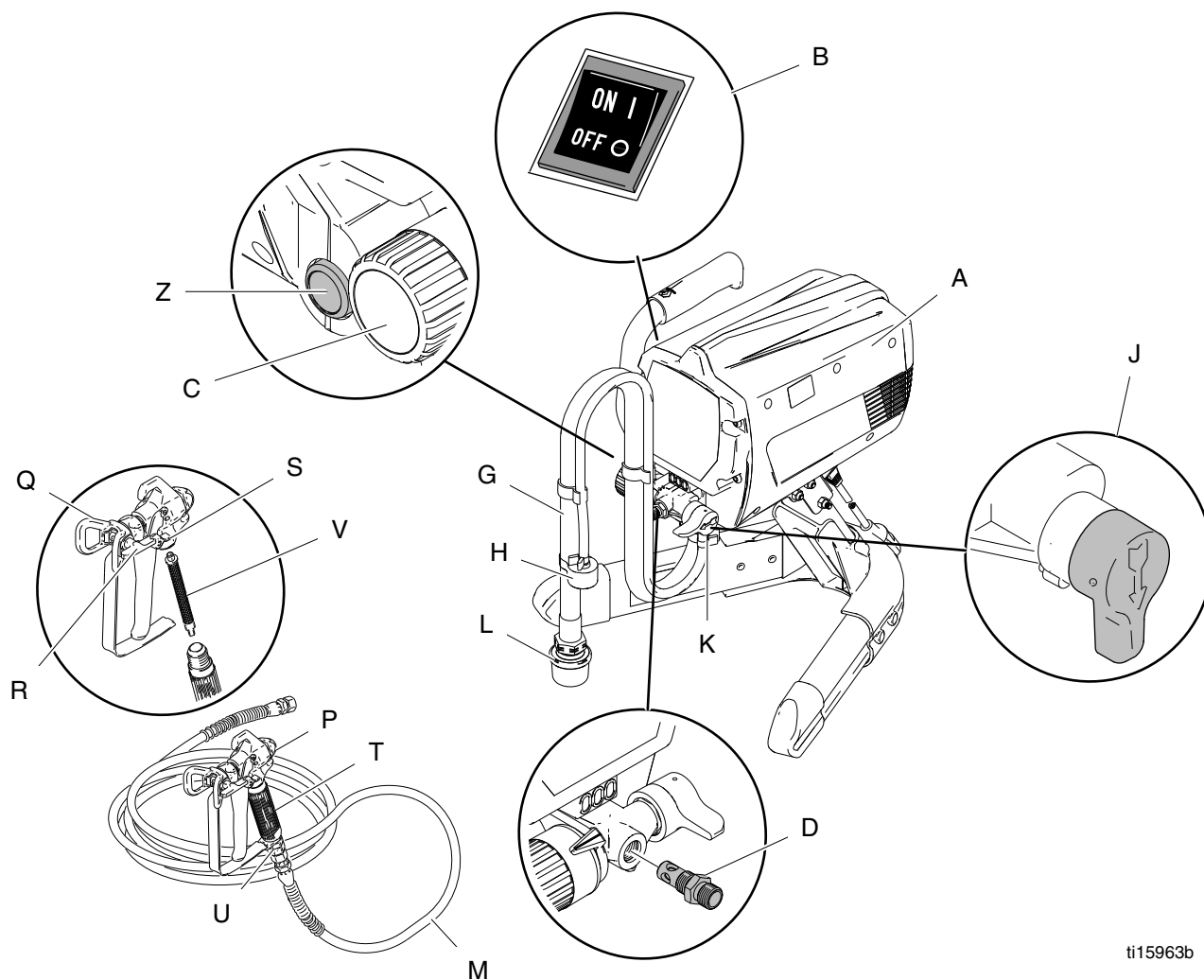
4. Smaller gauge or longer extension cords may reduce sprayer performance.

Thermal Overload

Motor has a thermal overload switch to shut itself down if overheated. If unit overheats, allow approximately 45 minutes for unit to cool. Once cool, switch will close and unit will restart.

To reduce risk of injury from motor starting unexpectedly when it cools, always turn power switch OFF if motor shuts down.						

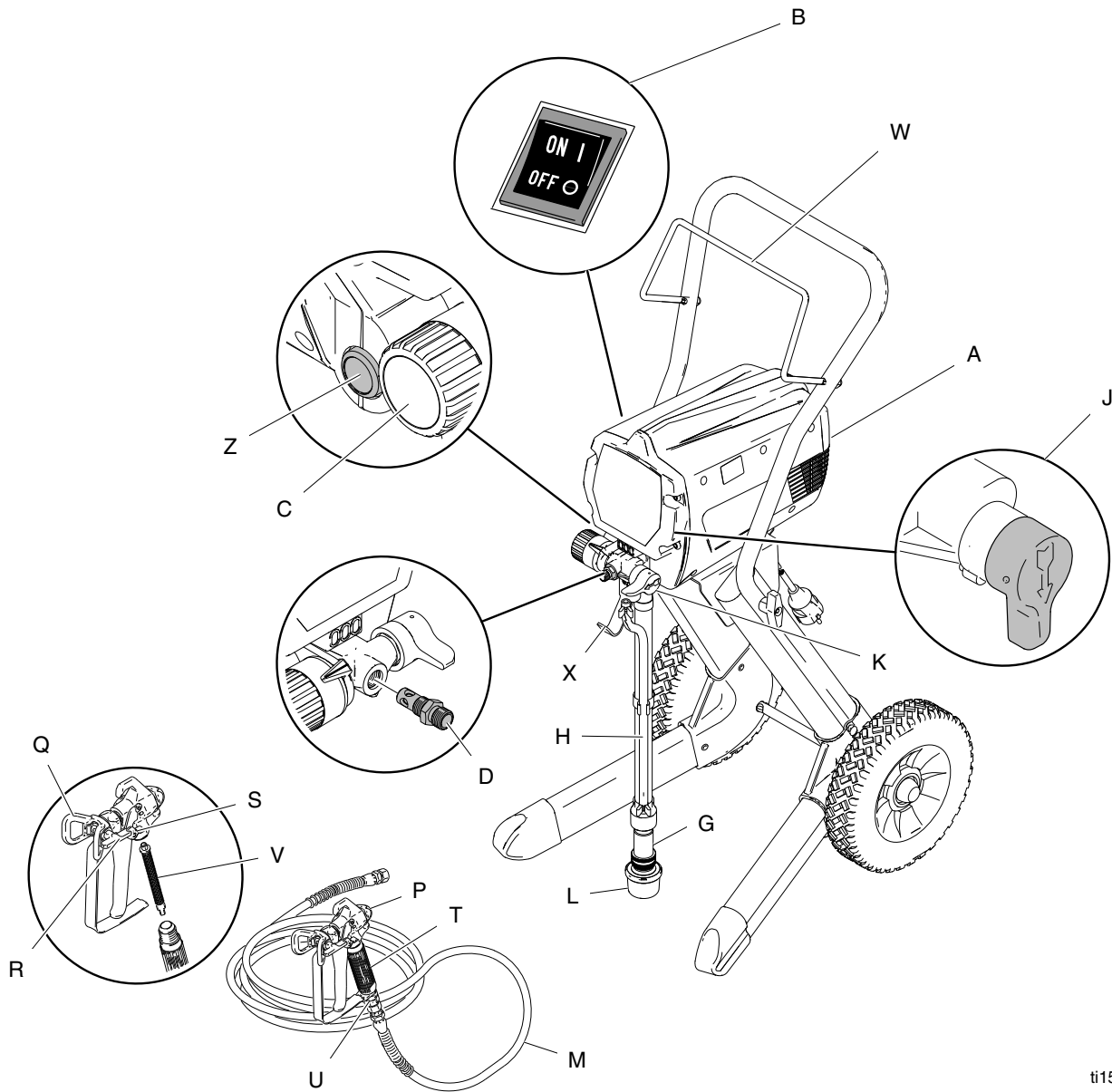
Component Identification (Magnum X5)



ti15963b

- | | | | |
|---|--|---|------------------------------|
| A | Electric motor (inside enclosure) | L | Inlet screen |
| B | Power switch | M | Paint hose |
| C | Pressure control knob | P | SG2 airless spray gun |
| D | Pump fluid outlet fitting | Q | Tip guard |
| G | Suction Tube | R | Reversible spray tip |
| H | Prime tube (with diffuser) | S | Trigger safety lever |
| J | Prime/Spray valve control | T | Gun fluid inlet fitting |
| K | Fluid inlet connection and inlet valve | V | Gun fluid filter (in handle) |
| | | Z | Pump Priming Button |

Component Identification (Magnum X7)



ti15964b

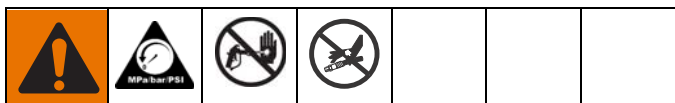
- A Electric motor (inside enclosure)
- B Power switch
- C Pressure control knob
- D Pump fluid outlet fitting
- G Suction Tube
- H Prime tube (with diffuser)
- J Prime/Spray valve control
- K Fluid inlet connection and inlet valve
- L Inlet screen

- M Paint hose
- P SG3 airless spray gun
- Q Tip guard
- R Reversible spray tip
- S Trigger safety lever
- T Gun fluid inlet fitting
- V Gun fluid filter (in handle)
- W Hose/cord wrap bracket
- X Pail hanger
- Z Pump Priming Button

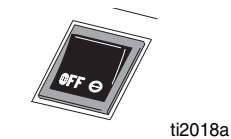
Operation

Pressure Relief Procedure

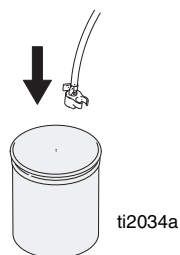
Follow this **Pressure Relief Procedure** whenever you stop spraying and before cleaning, checking, servicing, or transporting equipment.



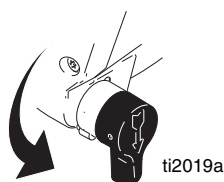
1. Turn OFF power switch.



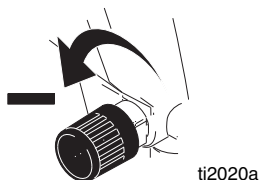
2. Place prime tube in waste pail.



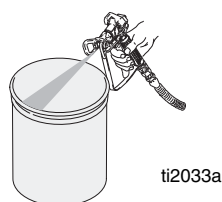
3. Turn Prime/Spray valve to PRIME.



4. Turn pressure control knob left (minimum pressure).

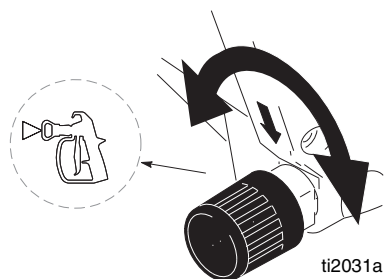


5. Trigger gun into bucket to relieve pressure in hose.

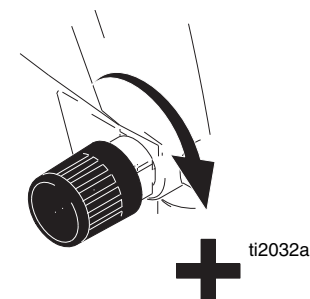


Pressure Adjustment

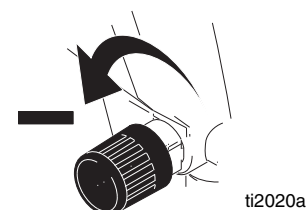
1. Align arrow on sprayer with spray symbol on pressure control knob.



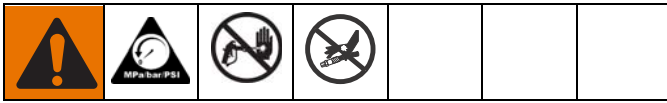
2. Turning knob right (clockwise) increases pressure at gun.



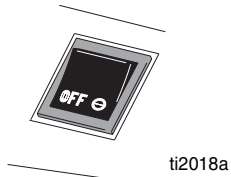
3. Turning knob left (counterclockwise) decreases pressure at gun.



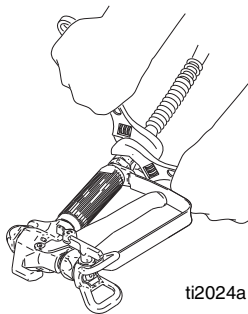
Setup



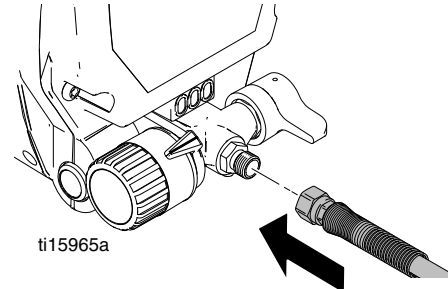
1. Turn OFF power switch.



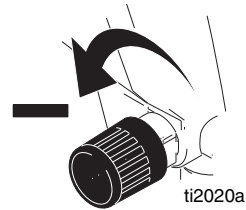
2. Connect one end of grounded fluid hose to spray gun. Use a wrench to tighten.



3. Connect other end of hose to sprayer fluid outlet fitting. Use wrench to tighten.



4. Turn pressure control knob left (minimum pressure).



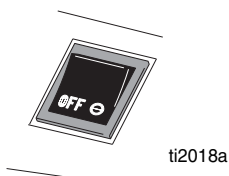
Priming



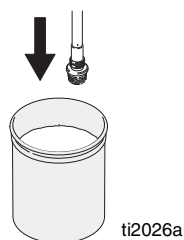
For flushing storage fluid and loading pump and hose with paint.

Before priming sprayer, follow Cleaning procedure, Steps 1-6, page 17.

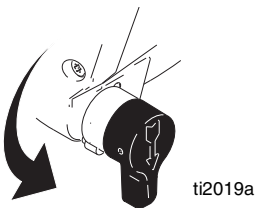
1. Turn OFF power switch.



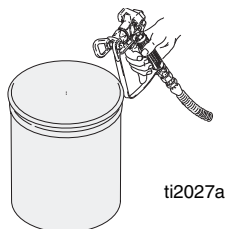
2. Submerge suction tube in paint.



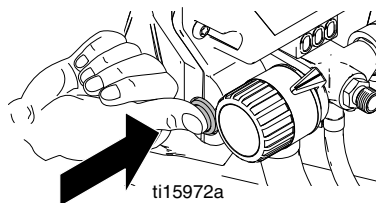
3. Turn Prime/Spray valve to PRIME.



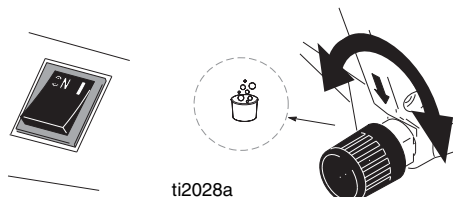
4. Point gun into waste pail.



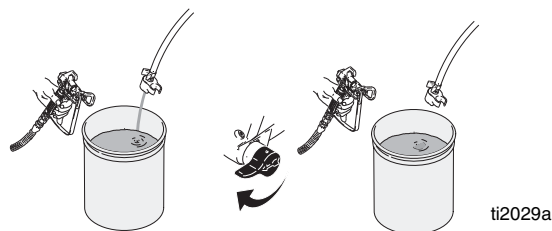
5. Push pump priming button two times.



6. Turn ON power switch. Align arrow on sprayer and bucket symbol on pressure control knob.

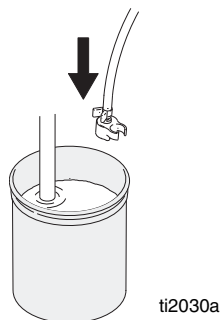


7. When paint, without bubbles, starts to come out of prime tube, trigger gun and turn Prime/Spray valve to SPRAY. When paint comes out of gun, release trigger.

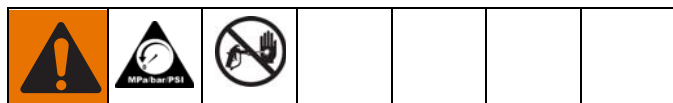


NOTE: The motor stopping indicates the pump and hose are primed with paint.

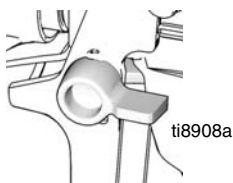
8. Transfer prime tube to paint pail.



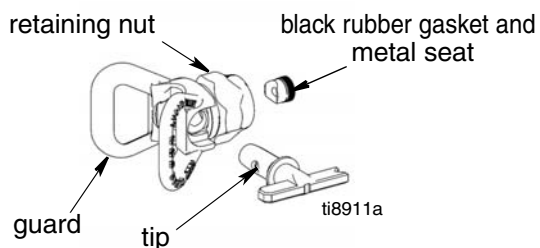
Install Tip and Guard on Gun



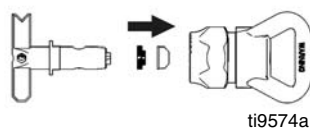
1. Engage trigger lock.



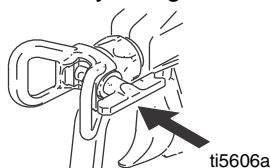
2. Verify tip and guard parts are assembled in order shown.



Use tip to align seat
in guard



Tip must be pushed
all the way into guard



3. Screw tip and guard assembly on gun. Tighten retaining nut.



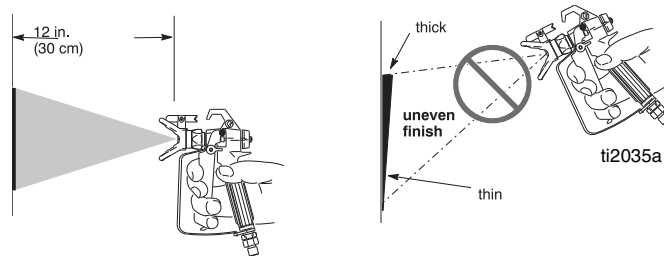
Spraying Techniques



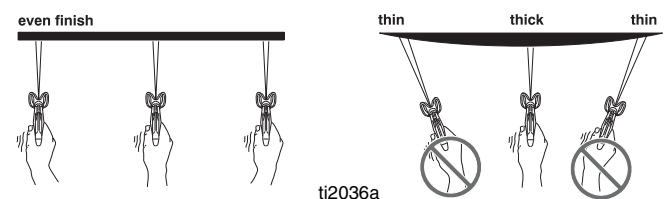
Motor runs only when gun is triggered. Sprayer is designed to stop pumping when gun trigger is released.

Getting Started

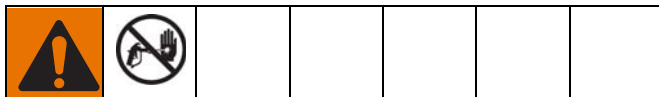
Hold gun 30 cm (12 in.) from surface and aim straight at surface. Tilting gun to direct spray angle causes an uneven finish.



Flex wrist to keep gun pointed straight. Fanning gun to direct spray angle causes uneven finish.



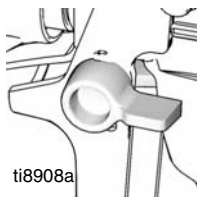
Unclogging Spray Tip



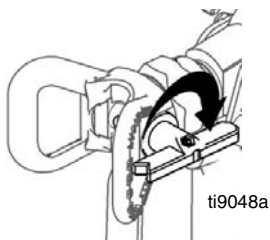
To avoid fluid splash back:

- Never pull gun trigger when arrow-shaped handle is between SPRAY and UNCLOG positions.
- Tip must be pushed all the way into guard.

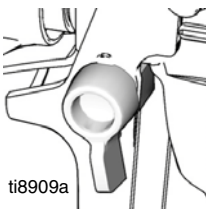
1. To UNCLOG tip obstruction, engage trigger lock.



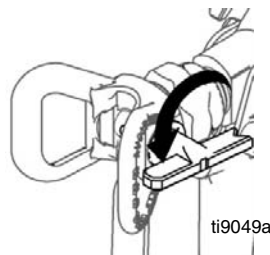
2. Point arrow-shaped handle backward to UNCLOG position.



3. Aim gun at piece of scrap or cardboard.
4. Unlock trigger lock. Pull trigger to clear clog.



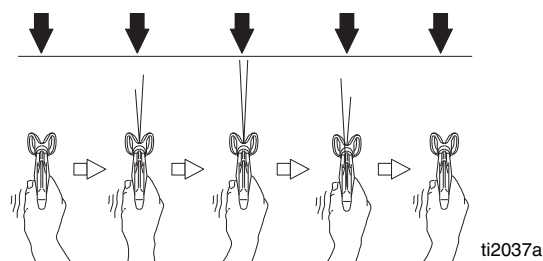
5. When obstruction is cleared, engage trigger lock and rotate arrow-shaped handle back to SPRAY position.



Point the arrow-shaped handle on the spray tip forward to SPRAY and backward to UNCLOG obstructions.

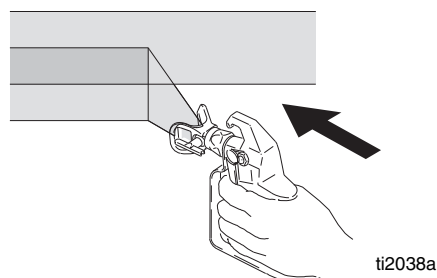
Triggering Gun

Pull trigger after starting stroke, release trigger before end of stroke. Gun must be moving when trigger is pulled and released.



Aiming Gun

Aim tip of gun at edge of previous stroke to overlap each stroke by half.



Selecting the Right Tip

Tip Hole Size

- Spray should be atomized (evenly distributed, no gaps or edges). Start at a low pressure setting, increase pressure a little at a time until paint atomizes.
- Fluid flow rate is controlled by tip hole size.
- The best tip hole size for fluid you are spraying is determined by type of coating and type of surface you are spraying.
- Use large tip hole size when spraying thicker coatings.
- Use small tip hole size when spraying thinner coatings.
- Tips wear and enlarge when you spray. Starting with a tip hole size smaller than the maximum will allow you to spray within rated flow capacity. To prevent excessive wear, spray at lowest pressure that atomizes paint.

NOTE: If maximum pressure of sprayer is not enough for good spray pattern, tip is too large or worn. See **Reversible Tip Selection Table, page 16.**

Tip Hole Size (diameter based on area of elliptical orifice)	COATINGS					
	stains	enamels	oil-based primers and paints	interior latex paint	exterior latex paint	acrylics
0.013 in. (0.33 mm)	X	X	X	X		
0.015 in. (0.38 mm)		X	X	X	X	
0.017 in. (0.43 mm)			X	X	X	X
Maximum Tip Size: X5 - 0.015 in. (0.38 mm) X7 - 0.017 in. (0.43 mm)						

Fan Width

Fan Width is the size of the spray pattern.

Narrow Fan

- Thicker coat
- Better control
- Small, confined surfaces

Wide Fan

- Thin coat
- Fast coverage
- Broad, open surfaces

Tip Number

The last three digits of tip number (example 286413) contain information about hole size and fan width when gun is held 30.5 cm (12 in.) from surface being sprayed.

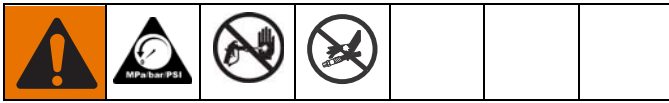
Reversible Tip Selection Table

Tip Part Number	Fan Width 305 mm (12 in.) from surface	Hole Size
286313	152-203 mm (6-8 in.)	0.33 mm (0.013 in.)
286413	203-254 mm (8-10 in.)	0.33 mm (0.013 in.)
286415	203-254 mm (8-10 in.)	0.38 mm (0.015 in.)
286515	254-305 mm (10-12 in.)	0.38 mm (0.015 in.)
286417	203-254 mm (8-10 in.)	0.43 mm (0.017 in.)
286517	254-305 mm (10-12 in.)	0.43 mm (0.017 in.)

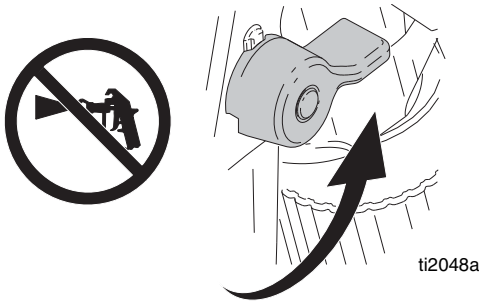
Example: For an 203-254 mm (8-10 in.) fan width and a 0.33 mm (0.013 in.) hole size, order part no. 286413.

- See manual 312830 for gun operating instructions and spray techniques.

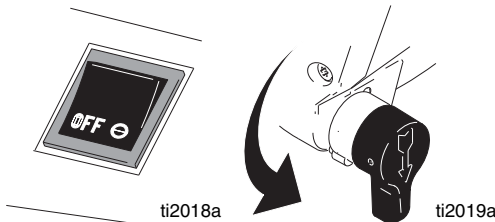
Cleanup



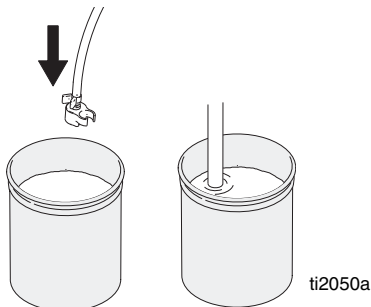
1. Engage gun trigger lock.



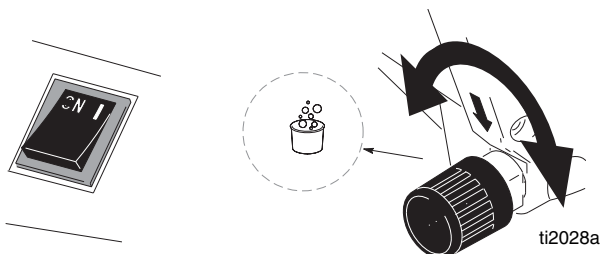
2. Turn OFF power switch. Turn Prime/Spray valve to PRIME.



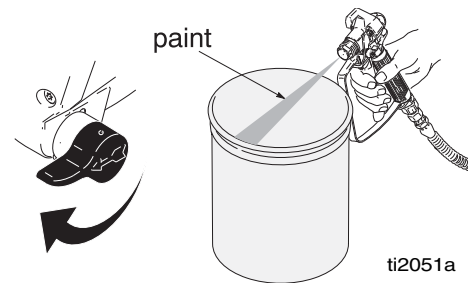
3. Place prime tube in waste pail. Submerge suction tube in water or compatible solvent for non-water based material.



4. Turn ON power switch. Align arrow on sprayer and bucket symbol on pressure control knob.

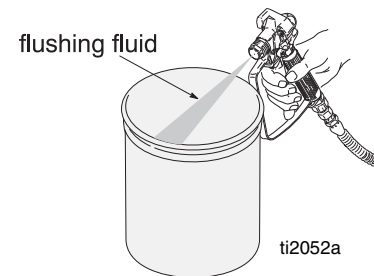


5. While pump continues to stroke, remove trigger lock. Trigger gun into paint pail. Turn Prime/Spray valve to SPRAY. Continue to trigger gun until flushing fluid comes out of gun. Release trigger.



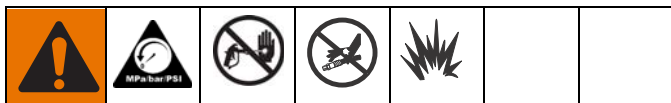
NOTE: To minimize splashing, aim gun at inside wall of empty waste pail.

6. Move gun to waste pail. Trigger gun until remaining flushing fluid is gone from flushing pail. Release gun trigger.



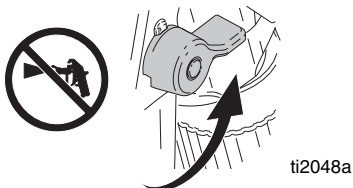
7. Fill unit with Pump Armor or mineral spirits. See **Cleanup**, page 17.

Cleaning Gun Filter

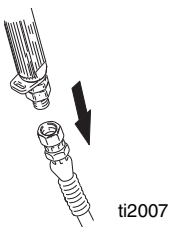


Perform **Pressure Relief Procedure**, page 10.

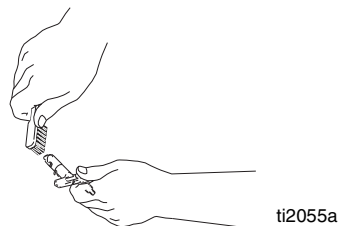
1. Engage gun trigger lock.



2. Unscrew hose.

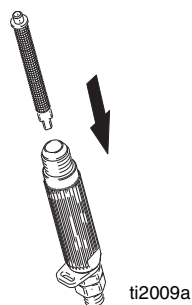


3. Remove filter and clean it in compatible solvent.

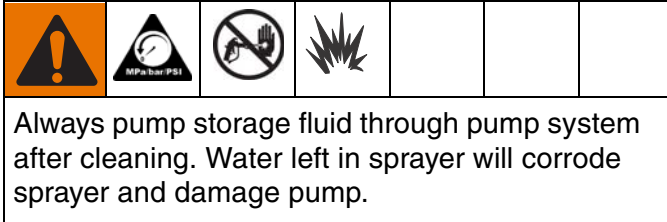


NOTE: Do not soak entire gun in solvent. Prolonged exposure to solvent can ruin packings.

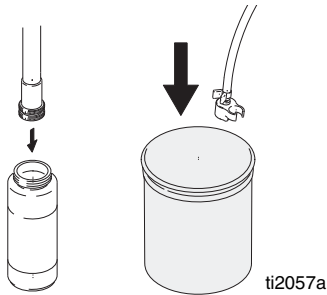
4. Insert filter.



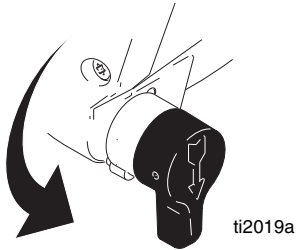
Filling Sprayer with Storage Fluid



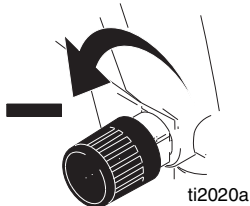
1. Remove inlet strainer. Place suction tube in storage fluid bottle and prime tube in waste pail.



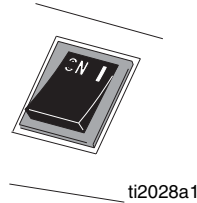
2. Turn Prime/Spray valve to PRIME.



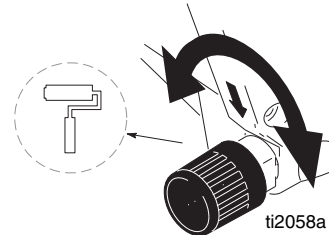
3. Turn pressure control knob all the way left (counterclockwise) to minimum pressure.



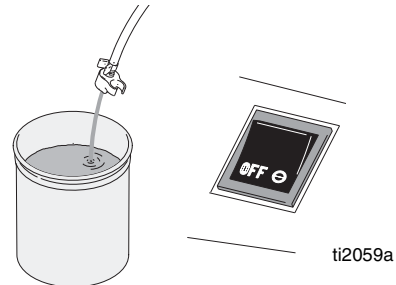
4. Turn ON power switch.



5. Align arrow on sprayer with roller symbol on pressure control knob.



6. When storage fluid comes out of prime tube (5-10 seconds) turn OFF power switch.



7. Turn Prime/Spray valve to SPRAY to keep storage fluid in sprayer during storage.



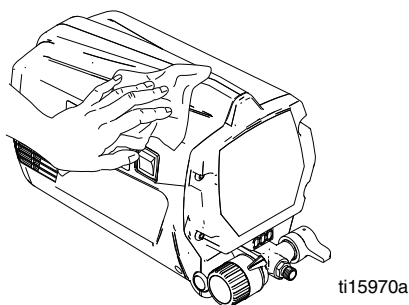
Maintenance

NOTICE

Openings in shroud provide air for cooling mechanical parts and electronics inside. If water gets in these openings sprayer could malfunction or be permanently damaged.

Caring for Sprayer

Clean sprayer and accessories thoroughly after each use.



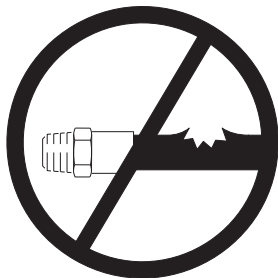
Do not cover vent holes or shroud while spraying.

Gun Fluid Filter

Clean gun fluid filter with compatible solvent and brush every time you flush system. Replace when damaged.

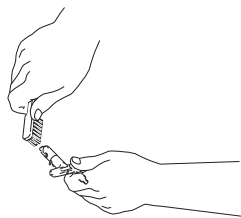
Paint Hoses

Check hose for damage every time you spray. Do not attempt to clean or repair hose if hose jacket or fittings are damaged. Do not use hoses shorter than 7.5 m (25 ft).



Tips

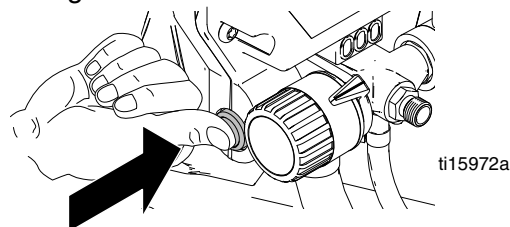
- Always clean tips with compatible solvent and brush after spraying.



- Tip life: 57 liters (15 gallons) - 227 liters (60 gallons)*
- Do not spray with worn tip.

Pump Check Valves

- Storing in water, inadequate flushing or ingested debris can cause either of the two check valves to malfunction.
- If pump does not prime after 30 seconds, try to loosen check balls by pushing pump priming button or by tapping the inlet valve with a small wrench as the sprayer is stroking.



NOTE: Excessive shock will fracture or cause other damage to pump.

NOTE: To verify inlet valve ball is sticking, unscrew valves from pump and check them.

If sprayer continues to cycle (motor and pump run) after you release gun trigger, pump valves may be obstructed or worn. Valve repair kits are available from Graco/MAGNUM authorized service centers.

Pump

When pump wears, paint will begin to leak down outside of pump. Replace pump at first sign of leaking or additional damage could occur.

Pump repair kits are available from Graco/MAGNUM authorized service centers.

Troubleshooting



Problem	Cause	Solution
Pump will not prime HINT: <ul style="list-style-type: none"> Attempt to free check balls by pushing pump priming button. Attempt to free check balls by tapping side of inlet valve as sprayer is stroking. Strain paint before spraying. Keep sand and debris out. Thoroughly flush after every paint job. Do not store in water. Use Pump Armor or mineral spirits. 	Prime/Spray valve set at SPRAY.	Turn Prime/Spray valve to PRIME.
	Inlet screen clogged.	Clean debris off inlet screen.
	Suction tube is not immersed.	Reposition suction tube in bottom of paint pail.
	Inlet valve check ball stuck.	Remove tube. Insert end of pencil into inlet section to dislodge ball. Press pump priming button, page 8. OR Power Flush unit, page 17.
	Outlet valve check ball stuck.	Unscrew outlet valve. Remove and clean assembly.
	Suction tube is leaking.	Tighten suction tube connection. Inspect for cracks or vacuum leaks.
	Prime/Spray valve clogged.	Clean/replace drain tube as necessary. Return sprayer to Graco/MAGNUM authorized service center if drain valve is clogged.
Power switch is on and sprayer is plugged in but pump does not cycle.	Pressure set at minimum.	Turn pressure control knob right to increase pressure.
	Electrical outlet is not providing power.	<ul style="list-style-type: none"> Try a different outlet OR test outlet by plugging something in that you know is working. Reset building circuit breaker or replace fuse.
	Damaged extension cord.	Replace extension cord. See Grounding Instructions, page 7.
	Damaged sprayer electrical cord.	Check for broken insulation or wires. Replace damaged electrical cord.
	Motor or control damaged.	Return sprayer to authorized Graco service center.
	Paint frozen or hardened in pump.	Unplug sprayer from electrical outlet. If paint is frozen in sprayer: Do NOT try to start frozen sprayer. Thaw completely or you may damage motor, control board and/or drivetrain. <ol style="list-style-type: none"> Turn OFF power switch. Place sprayer in warm area for several hours. Plug in and turn on sprayer. Slowly increase pressure until motor starts. If paint hardened in sprayer: <ol style="list-style-type: none"> Replace pump packings. Remove all residue from valves and passages.

Problem	Cause	Solution
Pump cycles but pressure does not build up.	Pump not primed.	Prime pump, page 12.
	Inlet screen clogged.	Clean debris off inlet screen
	Suction tube not immersed.	Reposition suction tube in bottom of paint pail.
	Paint pail empty.	Refill paint pail and reprime sprayer.
	Suction tube has vacuum air leak.	Tighten suction tube connection. Inspect for cracks or vacuum leaks. If cracked or damaged, replace.
	Pump check valves are dirty or damaged.	Return sprayer to Graco/MAGNUM authorized service center.
	Prime/Spray valve worn or obstructed with debris.	
	Pump check ball stuck.	See "Pump will not prime" section of Troubleshooting table. Press pump priming button two times.
Cannot pull gun trigger.	Gun trigger safety engaged.	Remove gun trigger safety
Gun stops spraying.	Spray tip clogged.	<ol style="list-style-type: none"> 1 Turn arrow-shaped handle to unclog position. 2 Aim gun into waste pail. 3 Squeeze trigger. 4 Return arrow-shaped handle to spray position and begin spraying.
Pump cycles but paint only dribbles or spurts when trigger is pulled.	Pressure is set too low.	Turn pressure control knob right to increase pressure.
	Spray tip clogged.	Clean tip. See "Gun stops spraying" section of Troubleshooting table.
	Spray tip too large or worn.	Replace tip.
	Gun filter clogged.	Clean or replace gun filter, page 18.
	Fluid filter is clogged.	Clean or replace fluid filter.
	Pump check ball stuck.	See "Pump will not prime" section of Troubleshooting table.
Pressure set at maximum, but cannot achieve good spray pattern.	Tip is too large for sprayer.	Select smaller tip, Tip Hole Size, page 15.
	Tip is worn beyond capability of sprayer.	Replace tip.
	Gun filter clogged.	Clean or replace gun filter, page 18.
	Inlet screen clogged.	Clean debris off inlet screen.
	Pump valves worn.	Check for worn pump valves: <ol style="list-style-type: none"> 1 Prime sprayer with paint. 2 Trigger gun momentarily. When trigger is released, pump should cycle and stop. 3 If pump continues to cycle, pump valves may be worn. 4 Return sprayer to Graco/MAGNUM authorized service center.
	Fluid filter clogged.	Clean or replace fluid filter.
	Extension cord too long or not heavy enough gauge.	Replace cord, Grounding Information, page 7.

Problem	Cause	Solution
Sprayed paint runs down wall or sags.	Going on too thick.	Move gun faster.
		Use tip with smaller hole size.
		Use tip with wider fan.
		Move gun away from surface.
Sprayed paint is not covering.	Going on too thin.	Move gun slower.
		Use tip with larger hole size.
		Use tip with narrower fan.
		Move gun closer to surface.
Pattern is inconsistent or leaving stripes. HINT: Thin paint slightly with water/solvent.	Pressure set too low.	Turn pressure control knob right to increase pressure.
	Spray tip worn beyond capability of sprayer.	Replace tip.
Motor is hot and runs intermittently. <i>This is a Thermal Overload condition. Motor will automatically shut off due to excessive heat. Damage can occur if cause is not corrected.</i>	Vent holes in shroud are clogged or sprayer is covered.	Clear vent holes.
	Extension cord too long or not heavy enough gauge.	Replace cord, Grounding Instructions, page 7.
	Unregulated electrical generator being used has excessive voltage.	Use electrical generator with proper voltage regulator. Sprayer requires 220-240, VAC 50/60 Hz.
	Sprayer was operated at high pressure with small tip, causing frequent motor starts and excessive heat build up.	Decrease pressure setting or increase tip size. Move sprayer to cooler location.
Building circuit breaker opens after sprayer operates for 5-10 minutes. OR Building circuit breaker opens as soon as sprayer is plugged into outlet and sprayer is turned on.	Too many appliances plugged in on same circuit.	Unplug some appliances or use a less busy circuit.
	Extension cord is damaged, too long, or not a heavy enough gauge.	Plug in something that you know is working to test extension cord. Replace extension cord. Grounding Instructions, page 7.
	Damaged sprayer electrical cord.	Check for broken insulation or wires. Replace damaged electrical cord.
	Damaged motor or control.	Return sprayer to Graco/MAGNUM authorized service center.
Fan pattern varies dramatically while spraying.	Pressure control switch is worn and causing excessive pressure variation.	Return sprayer to Graco/MAGNUM authorized service center.
Sprayer does not turn on promptly when resuming spraying.		
Spray comes out of gun in two thick streams.	Reversible tip is in UNCLOG position.	Rotate arrow-shaped handle on tip to SPRAY position.
Paint leaks down outside of pump.	Worn pump packings.	Replace pump packings, see Pump manual.
Paint comes out of pressure control knob.	Worn pressure control knob.	Return sprayer to Graco/MAGNUM authorized service center.
Pressure drain actuates automatically, relieving pressure through prime tube.	System is overpressuring.	

Technical Data

	X5	X7
Maximum fluid working pressure - sprayer	207 bar, 21 MPa (3000 psi)	
Sprayer inlet size	3/4 in. internal thread (standard garden hose USA)	
Sprayer outlet size	1/4 npsm external thread	
Electric motor (open frame universal motor)	1/2 hp 4.5 Amp	5/8 hp 4.5 Amp
Sprayer weight only	6.1 kg (13.3 lb)	10.6 kg (23.3 lb)
Dimensions:		
Length	36.0 cm (14.5 in.)	49.5 cm (19.5 in.)
Width	31.5 cm (12.4 in.)	38.9 cm (15.3 in.)
Height	45.5 cm (17.9 in.)	94.0 cm (37.0 in.)
Wetted parts sprayer	Stainless steel, brass, ultra-high molecular weight polyethylene (UHMWPE) leather carbide, nylon, aluminum, PVC, polypropylene, fluoroelastomer	
Inlet Screen on Suction Tube	450 micron (35 mesh)	
Maximum material temperature	50° C (120° F)	
Electrical power requirement	220 - 240V AC 50/60 Hz, 1 phase, 10A	
Sound data spray gun:		
Sound pressure level	78 dB(A) to 85 dB(A)	
Sound power level	87 dB(A) to 89 dB(A)	
Storage temperature range	-30° to 160° F (-35° to 71° C)	
Operating temperature range	40° to 115° (4° to 46° C)	

**Measured while spraying water-based paint - specific gravity 1.36 through a 517 tip at 207 bar, 21 MPA (3000 psi) per ISO 9614-2. Actual sound levels may vary with length of extension used.*

Notes

[illegible]

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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TO PLACE AN ORDER OR FOR SERVICE, contact your Graco distributor, or call 1-888-541-9788 to identify the nearest distributor.

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For patent information, see www.graco.com/patents.

Original instructions. This manual contains English. MM 3A1775

Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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